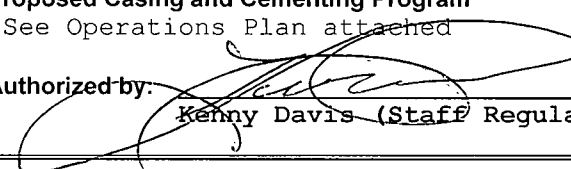


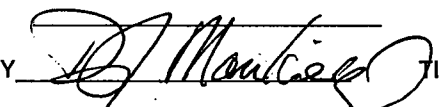
RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FEB 27 2013

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK ^{San Juan Field Office}
Bureau of Land Management

1a. Type of Work DRILL	5. Lease Number SF-080670 Unit Reporting Number	RCVD MAY 15 '13 BLM CONS. DIV.
1b. Type of Well GAS	BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS	
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	6. If Indian, All. or Tribe	DIST. 3
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	7. Unit Agreement Name	San Juan 27-4 Unit
4. Location of Well Surface: Unit N(SE/SW), 1040' FSL & 1780' FWL BHL : Unit L(NW/SW), 2090' FSL & 885' FWL Surface: Latitude: 36.525665° N (NAD83) Longitude: 107.276894° W BHL : Latitude: 36.528540° N (NAD83) Longitude: 107.279852° W	8. Farm or Lease Name San Juan 27-4 Unit	9. Well Number 30P
10. Field, Pool, Wildcat Basin DK/Blanco MV	11. Sec., Twn, Rge, Mer. (NMPM) Surface: Sec. 32, T27N, R4W Bottom Hole: Sec. 32, T27N, R4W	API # 30-039- 31184
14. Distance in Miles from Nearest Town 102.3 from: Bloomfield, NM	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 885'	16. Acres in Lease 2,564.720	17. Acres Assigned to Well 320.00 (W/2)
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 101.1' from: San Juan 27-4 Unit 8 (Pictured Cliffs well)	19. Proposed Depth 8341'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 7117' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached	24. Authorized by:  Kenny Davis (Staff Regulatory Tech)	2/26/13 Date

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY  TITLE AFM DATE 5/10/13

Archaeological Report attached A gas recovery unit may or may not be used on this location.
Threatened and Endangered Species Report attached
NOTE: This format is issued in lieu of U.S. BLM Form 3160-3
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.
Example Master Plan Type 3 Bond Numbers NMB-000015 & NMB-000089

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and "As Drilled" plat and appeal pursuant to 43 CFR 3165.4

NMOC D IV
MAY 17 2013 ca

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

Hold C104
for Directional Survey
and "As Drilled" plat

A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOC FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOC PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS.

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

16

CALC COR.

5247.0' (CALC)
5280.0' (R)

SECTION 32,
T-27-N, R-4-W

W/2 DEDICATED
ACREAGE
USA SF-080670

BOTTOM HOLE
NAD 83
LAT: 36.528540° N
LONG: 107.279852° W
NAD 27
LAT: 36°31.711804' N
LONG: 107°16.755206' W

885'

2090'

N 40°02'26" W
1360.6'

1780'

1040'

E
N 23°3'23" E
NORTH
WEST
N 89°24'44" E

CALC COR.

BASIS OF BEARING IS GRID NORTH, NEW MEXICO STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83 DERIVED BY GPS OBSERVATION AND NGS/OPUS SOLUTION.

SURVEYOR NOTE: THE SECTION CORNERS SHOWN ON THIS PLAT HAVE BEEN PROTRACTED USING EXISTING PLSS CORNERS ON THE EXTERIOR OF THE TOWNSHIP AND CERTAIN COMMONLY ACCEPTED INTERIOR SECTION CORNER POSITIONS AND BY DOUBLE PROPORTIONATE MEASUREMENTS.

WELL FLAG
NAD 83
LAT: 36.525665° N
LONG: 107.276894° W
NAD 27
LAT: 36°31.539292' N
LONG: 107°16.577689' W

GN

MN

0°19'52"

9°40'

5280.0' (R)
5171.6' (CALC)

BLM
1972

17

CALC COR.

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Arleen R. Kellywood 5/26/11

Signature Date

Arleen R. Kellywood

Printed Name

arleen.r.kellywood@conocophillips.com

E-mail Address

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: 3/11/11

Signature and Seal of Professional Surveyor:



Certificate Number: NM 11393

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 30P

DEVELOPMENT

Lease:		AFE #: WAN.CDR.1020				AFE \$:	
Field Name: SAN JUAN		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer:		Phone:		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
RON	BLANCO MESAVERDE (PRORATED GAS)						
FRR	BASIN DAKOTA (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Directional							
Latitude: 36.525655	Longitude: -107.276295	X:	Y:	Section: 32		Range: 004W	
Footage X: 1780 FWL		Footage Y: 1040 FSL		Elevation: 7117 (FT)	Township: 027N		
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.528530	Longitude: -107.279253	X:	Y:	Section: 32		Range: 004W	
Footage X: 885 FWL		Footage Y: 2090 FSL		Elevation: (FT)	Township: 027N		
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2014		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 7132 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6932		☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	2172	4960		☐			
OJO ALAMO	3363	3769		☐			
KIRTLAND	3456	3676		☐			
FRUITLAND	3556	3576		☐			Possible Gas
PICTURED CLIFFS	3909	3223		☐			
LEWIS	3983	3149		☐			
Intermediate Casing	4133	2999		☐	121		8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 931 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4400	2732		☐			
CHACRA	4870	2262		☐			
MASSIVE CLIFF HOUSE	5598	1534		☐	764		Gas
MENEFEE	5723	1409		☐			
POINT LOOKOUT	6060	1072		☐			
MANCOS	6576	556		☐			
UPPER GALLUP	7218	-86		☐			
GREENHORN	8030	-898		☐			
GRANEROS	8089	-957		☐			
TWO WELLS	8111	-979		☐	2346		Gas
UPPER CUBERO	8247	-1115		☐			
LOWER CUBERO	8288	-1156		☐			
OAK CANYON	8315	-1183		☐			Est. Btm Perf - 8310'

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 30P

DEVELOPMENT

Total Depth	8341	-1209	☐	200	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC/BTC casing. Cement w/ 551 cuft. Circulate cement a minimum of 100' inside the previous casing string.
ENCINAL	8362	-1230	☐		TD~26' + T/Oak Canyon

Reference Wells:

Reference Type	Well Name	Comments
----------------	-----------	----------

Logging Program:

Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

Mud log from ~100' above the Upper Gallup to TD. Mud loggers will call final TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
----------	-------	-----------	---------	----------------	---------

ConocoPhillips

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJBU
 Project: San Juan Basin - New Mexico West Wells
 Site: San Juan 27 Wells
 Well: SJ 27-4 #30P
 Wellbore: Wellbore #1
 Design: Design #1

Local Co-ordinate Reference: Well SJ 27-4 #30P
 TVD Reference: WELL @ 7132.0usft (Original Well Elev)
 MD Reference: WELL @ 7132.0usft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Project: San Juan Basin - New Mexico West Wells, New Mexico, Directional "S"
 Map System: US State Plane 1927 (Exact solution) System Datum: Ground Level
 Geo Datum: NAD 1927 (NADCON CONUS)
 Map Zone: New Mexico West 3003 Using geodetic scale factor

Site: San Juan 27 Wells
 Site Position: Northing: 2,018,443.76 usft Latitude: 36° 32' 32.152 N
 From: Lat/Long Easting: 180,037.82 usft Longitude: 108° 55' 21.086 W
 Position Uncertainty: 15.0 usft Slot Radius: 13-3/16" Grid Convergence: -0.65 °

Well: SJ 27-4 #30P
 Well Position: +N/-S 0.0 usft Northing: 2,011,059.98 usft Latitude: 36° 31' 32.358 N
 +E/-W 0.0 usft Easting: 663,669.29 usft Longitude: 107° 16' 34.661 W
 Position Uncertainty: 0.0 usft Wellhead Elevation: usft Ground Level: 7,117.0 usft

Wellbore: Wellbore #1
 Magnetics: Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT)
 BGGM2012 2/15/2013 9.46 63.31 50,450

Design: Design #1
 Audit Notes:
 Version: Phase: PROTOTYPE Tie On Depth: 0.0
 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction
 (usft) (usft) (usft) (°)
 0.0 0.0 0.0 320.29

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,244.3	25.33	320.29	1,217.1	141.3	-117.3	3.00	3.00	0.00	320.29	
3,566.4	25.33	320.29	3,315.9	905.5	-752.0	0.00	0.00	0.00	0.00	
4,410.7	0.00	0.00	4,133.0	1,046.8	-869.3	3.00	-3.00	0.00	180.00	SJ 27-4 #30P ICP
8,618.7	0.00	0.00	8,341.0	1,046.8	-869.3	0.00	0.00	0.00	0.00	SJ 27-4 #30P PCP

ConocoPhillips

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico West Wells
 Site: San Juan 27 Wells
 Well: SJ 27-4 #30P
 Wellbore: Wellbore #1
 Design: Design #1

Local Co-ordinate Reference: Well SJ 27-4 #30P
 TVD Reference: WELL @ 7132.0usft (Original Well Elev)
 MD Reference: WELL @ 7132.0usft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	3.00	320.29	500.0	2.0	-1.7	2.6	3.00	3.00	0.00
600.0	6.00	320.29	599.6	8.0	-6.7	10.5	3.00	3.00	0.00
700.0	9.00	320.29	698.8	18.1	-15.0	23.5	3.00	3.00	0.00
800.0	12.00	320.29	797.1	32.1	-26.7	41.7	3.00	3.00	0.00
900.0	15.00	320.29	894.3	50.1	-41.6	65.1	3.00	3.00	0.00
1,000.0	18.00	320.29	990.2	71.9	-59.7	93.5	3.00	3.00	0.00
1,100.0	21.00	320.29	1,084.4	97.6	-81.0	126.9	3.00	3.00	0.00
1,200.0	24.00	320.29	1,176.8	127.0	-105.5	165.1	3.00	3.00	0.00
1,244.3	25.33	320.29	1,217.1	141.3	-117.3	183.6	3.00	3.00	0.00
1,300.0	25.33	320.29	1,267.4	159.6	-132.5	207.4	0.00	0.00	0.00
1,400.0	25.33	320.29	1,357.8	192.5	-159.9	250.2	0.00	0.00	0.00
1,500.0	25.33	320.29	1,448.2	225.4	-187.2	293.0	0.00	0.00	0.00
1,600.0	25.33	320.29	1,538.6	258.3	-214.5	335.8	0.00	0.00	0.00
1,700.0	25.33	320.29	1,629.0	291.2	-241.9	378.6	0.00	0.00	0.00
1,800.0	25.33	320.29	1,719.3	324.1	-269.2	421.3	0.00	0.00	0.00
1,900.0	25.33	320.29	1,809.7	357.1	-296.5	464.1	0.00	0.00	0.00
2,000.0	25.33	320.29	1,900.1	390.0	-323.9	506.9	0.00	0.00	0.00
2,100.0	25.33	320.29	1,990.5	422.9	-351.2	549.7	0.00	0.00	0.00
2,200.0	25.33	320.29	2,080.9	455.8	-378.5	592.5	0.00	0.00	0.00
2,300.0	25.33	320.29	2,171.3	488.7	-405.9	635.3	0.00	0.00	0.00
2,300.8	25.33	320.29	2,172.0	489.0	-406.1	635.6	0.00	0.00	0.00
NACIEMENTO									
2,400.0	25.33	320.29	2,261.7	521.6	-433.2	678.0	0.00	0.00	0.00
2,500.0	25.33	320.29	2,352.0	554.5	-460.5	720.8	0.00	0.00	0.00
2,600.0	25.33	320.29	2,442.4	587.4	-487.9	763.6	0.00	0.00	0.00
2,700.0	25.33	320.29	2,532.8	620.4	-515.2	806.4	0.00	0.00	0.00
2,800.0	25.33	320.29	2,623.2	653.3	-542.5	849.2	0.00	0.00	0.00
2,900.0	25.33	320.29	2,713.6	686.2	-569.9	892.0	0.00	0.00	0.00
3,000.0	25.33	320.29	2,804.0	719.1	-597.2	934.7	0.00	0.00	0.00
3,100.0	25.33	320.29	2,894.4	752.0	-624.5	977.5	0.00	0.00	0.00
3,200.0	25.33	320.29	2,984.7	784.9	-651.9	1,020.3	0.00	0.00	0.00
3,300.0	25.33	320.29	3,075.1	817.8	-679.2	1,063.1	0.00	0.00	0.00
3,400.0	25.33	320.29	3,165.5	850.7	-706.5	1,105.9	0.00	0.00	0.00
3,500.0	25.33	320.29	3,255.9	883.7	-733.9	1,148.7	0.00	0.00	0.00
3,566.4	25.33	320.29	3,315.9	905.5	-752.0	1,177.1	0.00	0.00	0.00
3,600.0	24.32	320.29	3,346.4	916.4	-761.0	1,191.2	3.00	-3.00	0.00
3,618.2	23.78	320.29	3,363.0	922.1	-765.8	1,198.6	3.00	-3.00	0.00
OJO ALAMO									
3,700.0	21.32	320.29	3,438.6	946.2	-785.8	1,230.0	3.00	-3.00	0.00
3,718.7	20.76	320.29	3,456.0	951.4	-790.1	1,236.7	3.00	-3.00	0.00
KIRTLAND									
3,800.0	18.32	320.29	3,532.6	972.3	-807.5	1,263.9	3.00	-3.00	0.00
3,824.6	17.58	320.29	3,556.0	978.1	-812.3	1,271.4	3.00	-3.00	0.00
FRUITLAND									
3,900.0	15.32	320.29	3,628.3	994.5	-826.0	1,292.8	3.00	-3.00	0.00
4,000.0	12.32	320.29	3,725.4	1,012.9	-841.2	1,316.7	3.00	-3.00	0.00
4,100.0	9.32	320.29	3,823.6	1,027.4	-853.2	1,335.5	3.00	-3.00	0.00
4,186.2	6.74	320.29	3,909.0	1,036.6	-860.9	1,347.5	3.00	-3.00	0.00

ConocoPhillips

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico West Wells
 Site: San Juan 27 Wells
 Well: SJ 27-4 #30P
 Wellbore: Wellbore #1
 Design: Design #1

Local Co-ordinate Reference: Well SJ 27-4 #30P
 TVD Reference: WELL @ 7132.0usft (Original Well Elev)
 MD Reference: WELL @ 7132.0usft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
PICTURED CLIFFS									
4,200.0	6.32	320.29	3,922.7	1,037.8	-861.9	1,349.1	3.00	-3.00	0.00
4,260.6	4.50	320.29	3,983.0	1,042.2	-865.6	1,354.8	3.00	-3.00	0.00
LEWIS									
4,300.0	3.32	320.29	4,022.3	1,044.3	-867.3	1,357.5	3.00	-3.00	0.00
4,400.0	0.32	320.29	4,122.3	1,046.7	-869.3	1,360.7	3.00	-3.00	0.00
4,410.7	0.00	0.00	4,133.0	1,046.8	-869.3	1,360.7	3.00	-3.00	0.00
7" INTERMEDIATE CASING									
4,500.0	0.00	0.00	4,222.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
4,600.0	0.00	0.00	4,322.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
4,677.7	0.00	0.00	4,400.0	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
HUERFANITO BENTONITE									
4,700.0	0.00	0.00	4,422.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
4,800.0	0.00	0.00	4,522.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
4,900.0	0.00	0.00	4,622.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
5,000.0	0.00	0.00	4,722.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
5,100.0	0.00	0.00	4,822.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
5,147.7	0.00	0.00	4,870.0	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
CHACRA									
5,200.0	0.00	0.00	4,922.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
5,300.0	0.00	0.00	5,022.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
5,400.0	0.00	0.00	5,122.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
5,500.0	0.00	0.00	5,222.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
5,600.0	0.00	0.00	5,322.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
5,700.0	0.00	0.00	5,422.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
5,800.0	0.00	0.00	5,522.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
5,875.7	0.00	0.00	5,598.0	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
MASSIVE CLIFF HOUSE									
5,900.0	0.00	0.00	5,622.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
6,000.0	0.00	0.00	5,722.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
6,000.7	0.00	0.00	5,723.0	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
MENEFFEE									
6,100.0	0.00	0.00	5,822.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
6,200.0	0.00	0.00	5,922.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
6,300.0	0.00	0.00	6,022.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
6,337.7	0.00	0.00	6,060.0	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
POINT LOOKOUT									
6,400.0	0.00	0.00	6,122.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
6,500.0	0.00	0.00	6,222.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
6,600.0	0.00	0.00	6,322.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
6,700.0	0.00	0.00	6,422.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
6,800.0	0.00	0.00	6,522.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
6,853.7	0.00	0.00	6,576.0	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
MANCOS									
6,900.0	0.00	0.00	6,622.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,722.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
7,100.0	0.00	0.00	6,822.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
7,200.0	0.00	0.00	6,922.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
7,300.0	0.00	0.00	7,022.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,122.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
7,495.7	0.00	0.00	7,218.0	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
POINT LOOKOUT									

ConocoPhillips

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico West Wells
 Site: San Juan 27 Wells
 Well: SJ 27-4 #30P
 Wellbore: Wellbore #1
 Design: Design #1

Local Co-ordinate Reference: Well SJ 27-4 #30P
 TVD Reference: WELL @ 7132.0usft (Original Well Elev)
 MD Reference: WELL @ 7132.0usft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,500.0	0.00	0.00	7,222.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,322.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
7,700.0	0.00	0.00	7,422.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,522.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,622.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,722.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
8,100.0	0.00	0.00	7,822.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
8,200.0	0.00	0.00	7,922.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,022.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
8,307.7	0.00	0.00	8,030.0	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
GREENHORN									
8,366.7	0.00	0.00	8,089.0	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
GRANEROS									
8,388.7	0.00	0.00	8,111.0	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
TWO WELLS									
8,400.0	0.00	0.00	8,122.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,222.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
8,524.7	0.00	0.00	8,247.0	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
UPPER CUBERO									
8,565.7	0.00	0.00	8,288.0	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
LOWER CUBERO									
8,592.7	0.00	0.00	8,315.0	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
OAK CANYON									
8,600.0	0.00	0.00	8,322.3	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
8,618.7	0.00	0.00	8,341.0	1,046.8	-869.3	1,360.7	0.00	0.00	0.00
4 1/2" PRODUCTION CASING									

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SJ 27-4 #30P PCP	0.00	0.00	8,341.0	1,046.7	-869.3	2,012,101.61	662,793.99	36° 31' 42.708 N	107° 16' 45.312 W
- plan hits target center									
- Point									
SJ 27-4 #30P ICP	0.00	0.00	4,133.0	1,046.8	-869.3	2,012,101.63	662,793.96	36° 31' 42.708 N	107° 16' 45.312 W
- plan hits target center									
- Point									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
4,410.7	4,133.0	7" INTERMEDIATE CASING	7	8-3/4
8,618.7	8,341.0	4 1/2" PRODUCTION CASING	4-1/2	6-1/4

ConocoPhillips

Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJB
Project: San Juan Basin - New Mexico West Wells
Site: San Juan 27 Wells
Well: SJ 27-4 #30P
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well SJ 27-4 #30P
TVD Reference: WELL @ 7132.0usft (Original Well Elev)
MD Reference: WELL @ 7132.0usft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
5,147.7	4,870.0	CHACRA		0.00	
8,366.7	8,089.0	GRANEROS		0.00	
8,524.7	8,247.0	UPPER CUBERO		0.00	
8,388.7	8,111.0	TWO WELLS		0.00	
3,618.2	3,363.0	OJO ALAMO		0.00	
3,824.6	3,556.0	FRUITLAND		0.00	
4,186.2	3,909.0	PICTURED CLIFFS		0.00	
8,565.7	8,288.0	LOWER CUBERO		0.00	
4,260.6	3,983.0	LEWIS		0.00	
8,592.7	8,315.0	OAK CANYON		0.00	
2,300.8	2,172.0	NACIMIENTO		0.00	
3,718.7	3,456.0	KIRTLAND		0.00	
6,337.7	6,060.0	POINT LOOKOUT		0.00	
4,677.7	4,400.0	HUERFANITO BENTONITE		0.00	
7,495.7	7,218.0	POINT LOOKOUT		0.00	
6,000.7	5,723.0	MENEFEE		0.00	
6,853.7	6,576.0	MANCOS		0.00	
5,875.7	5,598.0	MASSIVE CLIFF HOUSE		0.00	
8,307.7	8,030.0	GREENHORN		0.00	

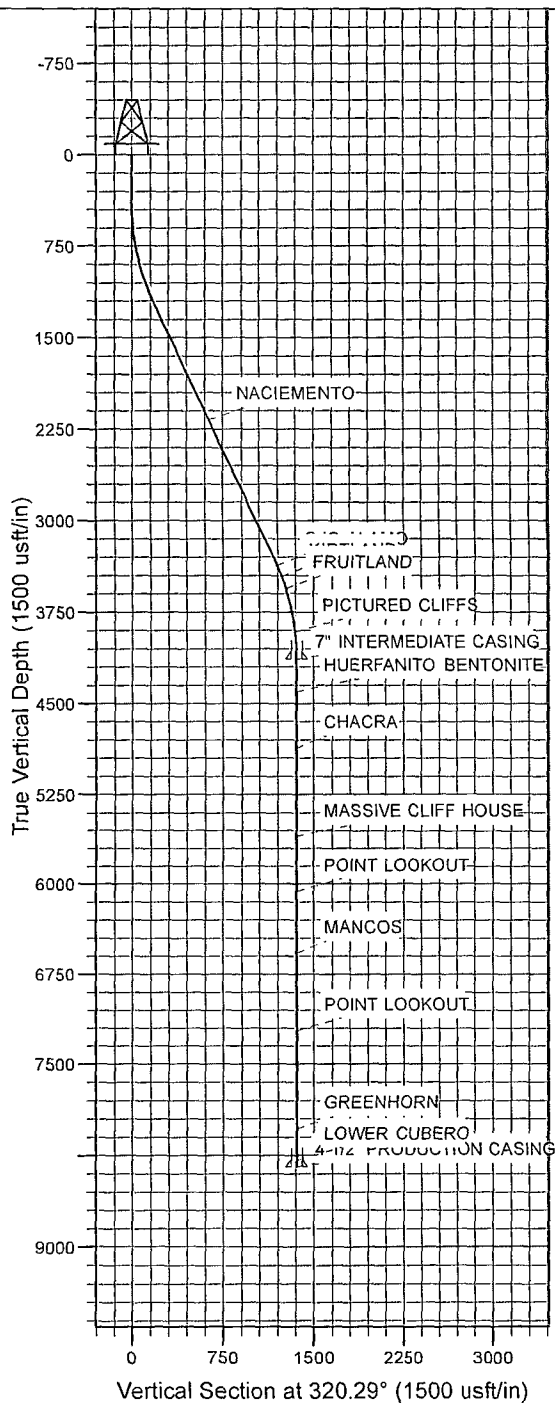
REFERENCE INFORMATION

WELL @ 7132.0usft (Original Well Elev)
Ground Elevation 7117.0
Reference Lat: 36° 31' 32.358 N
Reference Long: 107° 16' 34.661 W

Project: San Juan Basin - New Mexico West V
Site: San Juan 27 Wells
Well: SJ 27-4 #30P
Wellbore: Wellbore #1
Design: Design #1

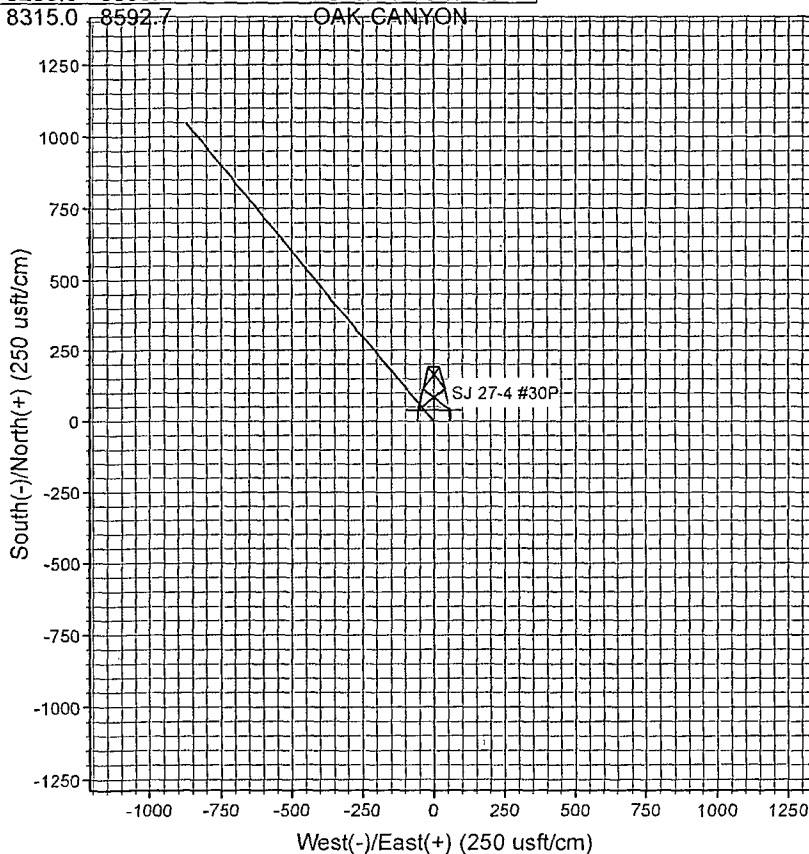
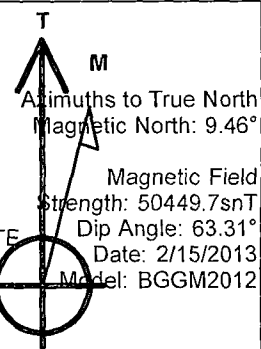
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	
3	1244.3	25.33	320.29	1217.1	141.3	-117.3	3.00	320.29	183.6	
4	3566.4	25.33	320.29	3315.9	905.5	-752.0	0.00	0.00	1177.1	
5	4410.7	0.00	0.00	4133.0	1046.8	-869.3	3.00	180.00	1360.7	SJ 27-4 #30P ICP
6	8618.7	0.00	0.00	8341.0	1046.8	-869.3	0.00	0.00	1360.7	SJ 27-4 #30P PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2172.0	2300.8	NACIEMENTO
3363.0	3618.2	OJO ALAMO
3456.0	3718.7	KIRTLAND
3556.0	3824.6	FRUITLAND
3909.0	4186.2	PICTURED CLIFFS
3983.0	4260.6	LEWIS
4400.0	4677.7	HUERFANITO BENTONITE
4870.0	5147.7	CHACRA
5598.0	5875.7	MASSIVE CLIFF HOUSE
5723.0	6000.7	MENEFEE
6060.0	6337.7	POINT LOOKOUT
6576.0	6853.7	MANCOS
7218.0	7495.7	POINT LOOKOUT
8030.0	8307.7	GREENHORN
8089.0	8366.7	GRANEROS
8111.0	8388.7	TWO WELLS
8247.0	8524.7	UPPER CUBERO
8288.0	8565.7	LOWER CUBERO
8315.0	8592.7	OAK CANYON



BURLINGTON RESOURCES OIL & GAS COMPANY LP
SAN JUAN 27-4 UNIT 30P
1040' FSL, 1780' FWL
SECTION 32, T-27-N, R-4-W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
NAD 83 LAT.: 36.525665°N LONG.: 107.276894°W
GROUND ELEV.: 7117 FINISHED ELEV.: 7118 NAVD88
NO NEW ACCESS
TWINNED WITH SJ 27-4 #8

DRIVING DIRECTIONS FROM BLOOMFIELD, NEW MEXICO.

- GO 67 MILES SOUTH ON HWY 550 TO THE INTERSECTION OF STATE HWY 550 & 537 (APACHI NUGGET CASINO). TURN LEFT.
- GO 28.2 MILES NORTH ON HWY 537. TURN LEFT ON J-6 ROAD.
- GO 2.6 MILES WEST ON J-6 ROAD. TURN RIGHT.
- GO 0.3 MILES NORTH. STAY LEFT.
- GO 1.3 MILES WESTERLY, UP STEEP SIDE HILL, ONTO B S MESA. STAY LEFT.
- GO 0.6 MILES NORTH. STAY RIGHT.
- GO 1.6 MILES NORTH WEST. TURN RIGHT.
- GO 0.7 MILES NORTH, DOWN HILL TO WELL LOCATIONS SJ 27-4 #136 AND DEAD END AT SJ 27-4 #8. NEW WELL STAKED AS TWIN HERE.